

IN THE DRAWINGS:

The attached sheets of drawings include changes to Figs. 1, 6-10, 17 and 27 to correct misspellings therein. These sheets replace the original sheets containing these drawings. Applicants are also submitting formal drawings herewith.

Attachment: Replacement Sheets

Annotated Sheets Showing Changes

REMARKS

Upon preparation of the formal drawings, Applicants noticed a number of misspelled words in the drawings. Applicants are amending the drawings to correct these errors. No new matter is being added. Therefore, it is respectfully requested that this amendment be entered and allowed.

If any fee should be due for this amendment, please charge our deposit account 50/1039.

Favorable consideration is earnestly solicited.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read 'Mark J. Murphy', is written over a horizontal line.

Mark J. Murphy
Registration No. 34,225

COOK, ALEX, MCFARRON, MANZO,
CUMMINGS & MEHLER, LTD.
200 West Adams Street - Suite 2850
Chicago, IL 60606
(312)236-8500

Customer no. 000026568

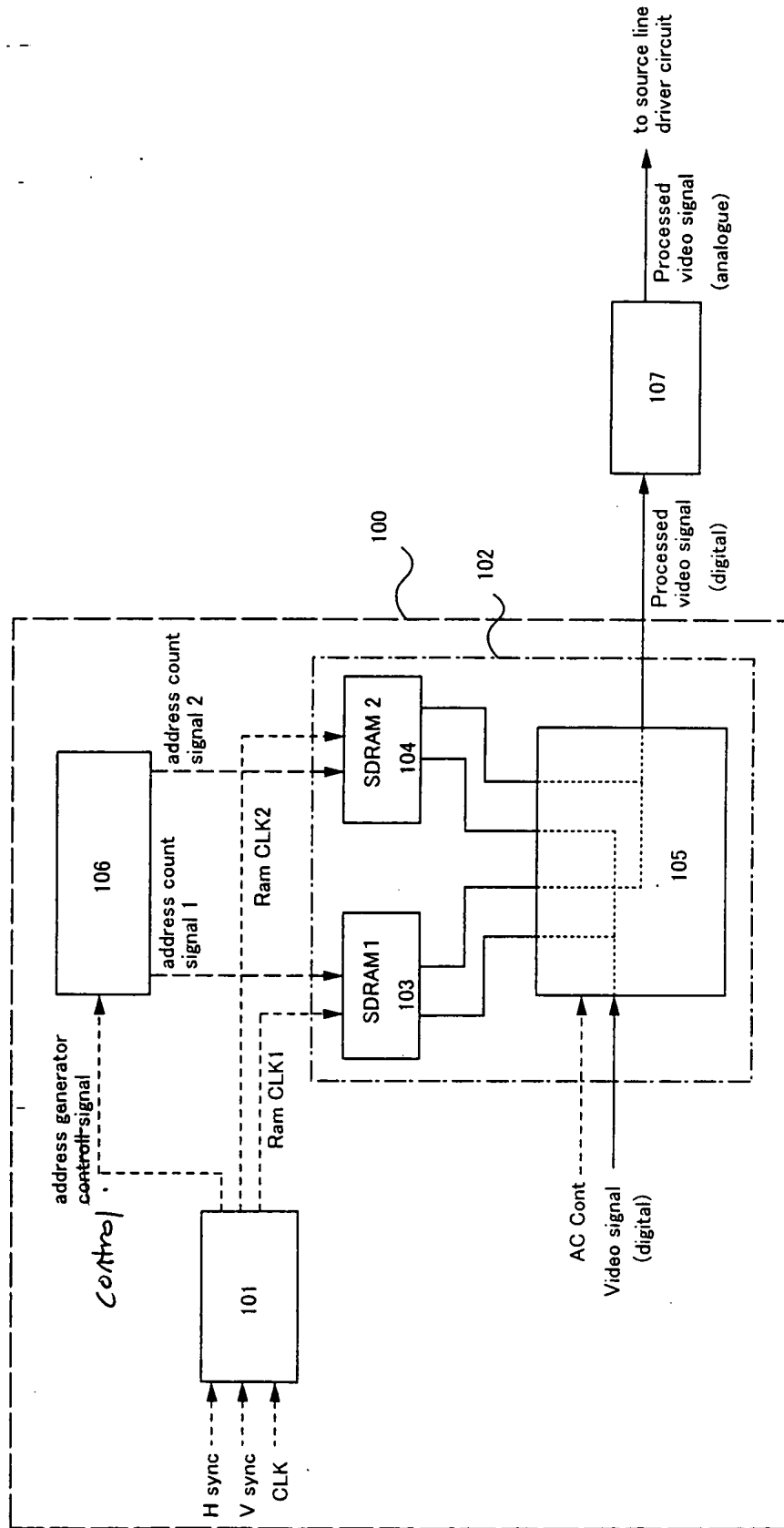


Fig. 1



Annotated
sheet

	S_p	$S(p+1)$	$S(p+2)$	$S(p+3)$	$S(p+4)$	$S(p+5)$	$S(p+6)$
G_q	+	+	+	+	+	+	+
$G(q+1)$	+	+	+	+	+	+	+
the first frame period (previous frame)	$G(q+2)$	+	+	+	+	+	+
	$G(q+3)$	+	+	+	+	+	+
	$G(q+4)$	+	+	+	+	+	+

the second frame period
(following frame)

following

-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

the third frame period
(previous frame)

+	+	+	+	+	+	+
+	+	+	+	+	+	+
+	+	+	+	+	+	+
+	+	+	+	+	+	+
+	+	+	+	+	+	+

the fourth frame period
(following frame)

following

-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

the fifth frame period
(previous frame)

+	+	+	+	+	+	+
+	+	+	+	+	+	+
+	+	+	+	+	+	+
+	+	+	+	+	+	+
+	+	+	+	+	+	+

Fig. 6



	S_p	$S(p+1)$	$S(p+2)$	$S(p+3)$	$S(p+4)$	$S(p+5)$	$S(p+6)$
G_q	+	-	+	-	+	-	+
$G(q+1)$	+	-	+	-	+	-	+
the first frame period (previous frame)	+	-	+	-	+	-	+
$G(q+3)$	+	-	+	-	+	-	+
$G(q+4)$	+	-	+	-	+	-	+

the second frame period
(following frame)
following

-	+	-	+	-	+	-
-	+	-	+	-	+	-
-	+	-	+	-	+	-
-	+	-	+	-	+	-
-	+	-	+	-	+	-

the third frame period
(previous frame)

+	-	+	-	+	-	+
+	-	+	-	+	-	+
+	-	+	-	+	-	+
+	-	+	-	+	-	+
+	-	+	-	+	-	+

the fourth frame period
(following frame)
following

-	+	-	+	-	+	-
-	+	-	+	-	+	-
-	+	-	+	-	+	-
-	+	-	+	-	+	-
-	+	-	+	-	+	-

the fifth frame period
(previous frame)

+	-	+	-	+	-	+
+	-	+	-	+	-	+
+	-	+	-	+	-	+
+	-	+	-	+	-	+
+	-	+	-	+	-	+

Fig. 7



the first frame period
(previous frame)

	S_p	$S(p+1)$	$S(p+2)$	$S(p+3)$	$S(p+4)$	$S(p+5)$	$S(p+6)$
G_q	+	+	+	+	+	+	+
$G(q+1)$	-	-	-	-	-	-	-
$G(q+2)$	+	+	+	+	+	+	+
$G(q+3)$	-	-	-	-	-	-	-
$G(q+4)$	+	+	+	+	+	+	+

the second frame period
(following frame)

following

-	-	-	-	-	-	-
+	+	+	+	+	+	+
-	-	-	-	-	-	-
+	+	+	+	+	+	+
-	-	-	-	-	-	-

the third frame period
(previous frame)

+	+	+	+	+	+	+
-	-	-	-	-	-	-
+	+	+	+	+	+	+
-	-	-	-	-	-	-
+	+	+	+	+	+	+

the fourth frame period
(following frame)

following

-	-	-	-	-	-	-
+	+	+	+	+	+	+
-	-	-	-	-	-	-
+	+	+	+	+	+	+
-	-	-	-	-	-	-

the fifth frame period
(previous frame)

+	+	+	+	+	+	+
-	-	-	-	-	-	-
+	+	+	+	+	+	+
-	-	-	-	-	-	-
+	+	+	+	+	+	+

Fig. 8



the first frame period
(previous frame)

	S_p	$S(p+1)$	$S(p+2)$	$S(p+3)$	$S(p+4)$	$S(p+5)$	$S(p+6)$
Gq	+	-	+	-	+	-	+
G(q+1)	-	+	-	+	-	+	-
G(q+2)	+	-	+	-	+	-	+
G(q+3)	-	+	-	+	-	+	-
G(q+4)	+	-	+	-	+	-	+

the second frame period
(following frame)

following

-	+	-	+	-	+	-
+	-	+	-	+	-	+
-	+	-	+	-	+	-
+	-	+	-	+	-	+
-	+	-	+	-	+	-

the third frame period
(previous frame)

+	-	+	-	+	-	+
-	+	-	+	-	+	-
+	-	+	-	+	-	+
-	+	-	+	-	+	-
+	-	+	-	+	-	+

the fourth frame period
(following frame)

following

-	+	-	+	-	+	-
+	-	+	-	+	-	+
-	+	-	+	-	+	-
+	-	+	-	+	-	+
-	+	-	+	-	+	-

the fifth frame period
(previous frame)

+	-	+	-	+	-	+
-	+	-	+	-	+	-
+	-	+	-	+	-	+
-	+	-	+	-	+	-
+	-	+	-	+	-	+

Fig. 9



Annotated
Sheet

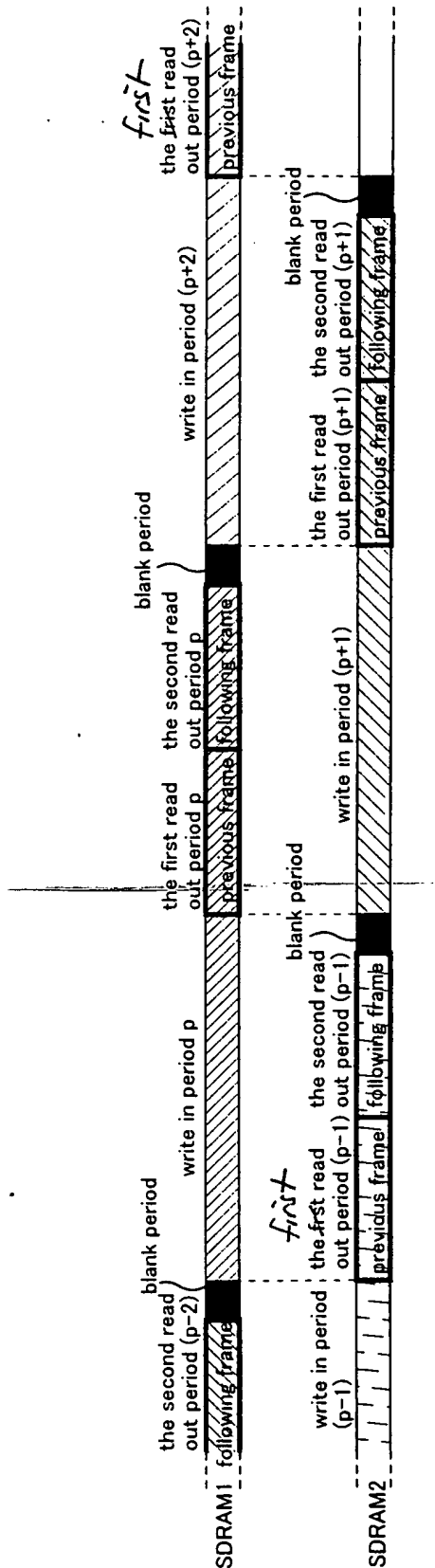


Fig. 10



Annotated
Sheet

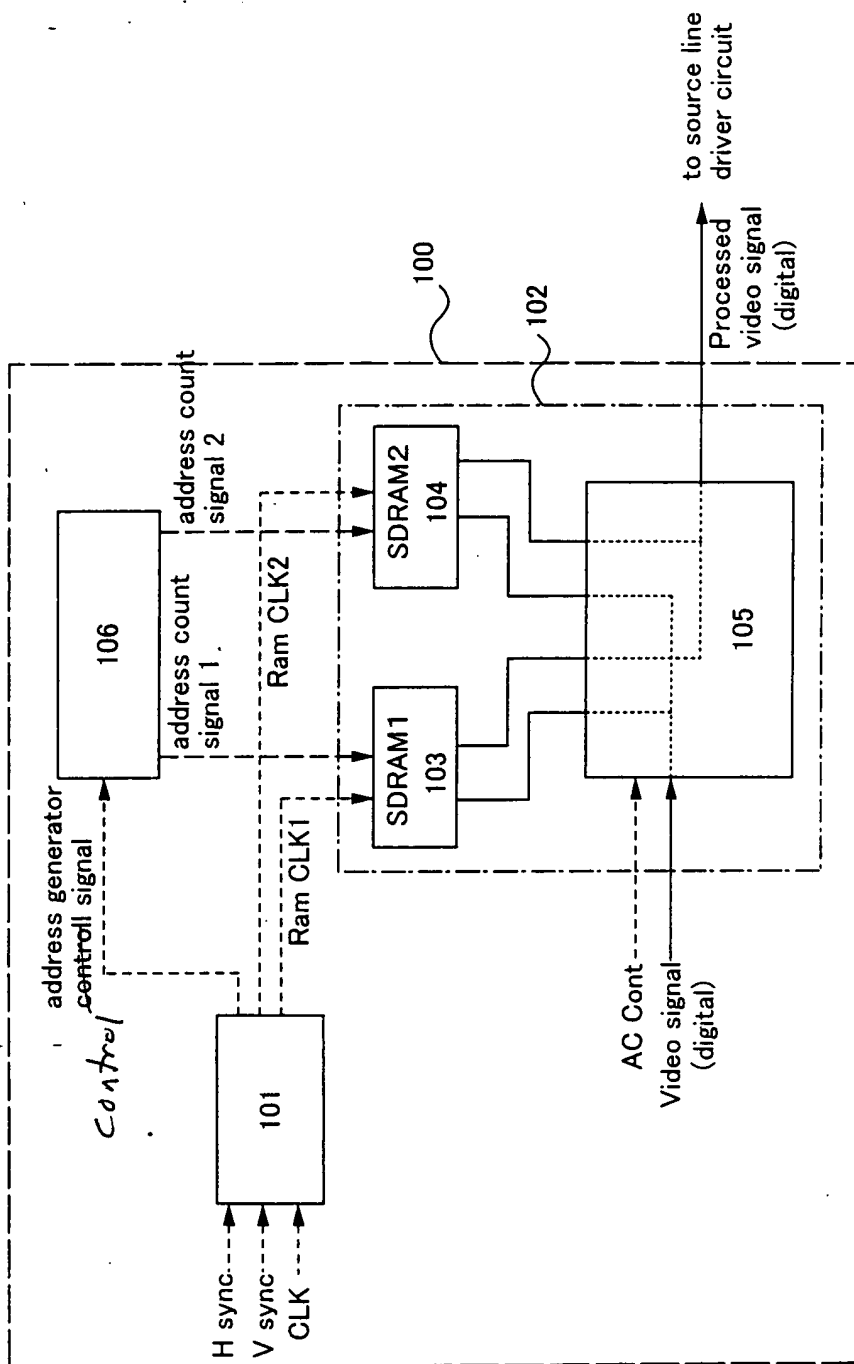
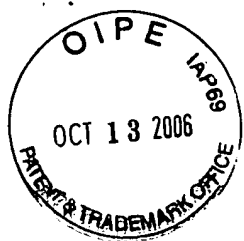


Fig. 17



Annotated Sheet

+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+
+	+	+	+	+	+



-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

Fig. 27A

polarity pattern ①
polarity

polarity pattern ②
polarity

+	-	+	-	+	-
+	-	+	-	+	-
+	-	+	-	+	-
+	-	+	-	+	-



-	+	-	+	-	+
-	+	-	+	-	+
-	+	-	+	-	+
-	+	-	+	-	+

Fig. 27B

polarity pattern ③

polarity pattern ④

+	+	+	+	+	+
-	-	-	-	-	-
+	+	+	+	+	+
-	-	-	-	-	-



-	-	-	-	-	-
+	+	+	+	+	+
-	-	-	-	-	-
+	+	+	+	+	+

Fig. 27C

polarity pattern ⑤

polarity pattern ⑥

+	-	+	-	+	-
-	+	-	+	-	+
+	-	+	-	+	-
-	+	-	+	-	+



-	+	-	+	-	+
+	-	+	-	+	-
-	+	-	+	-	+
+	-	+	-	+	-

Fig. 27D

polarity pattern ⑦

polarity pattern ⑧

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☒ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.